11. (amended) A method of producing biocompetent fibrinogen comprising:

incorporating a first DNA segment encoding a secretion signal operably linked to an Aα chain of fibrinogen into a β-lactoglobulin gene to produce a first gene fusion comprising a β-lactoglobulin promoter operably linked to the first DNA segment;

incorporating a second DNA segment encoding a secretion signal operably linked to a Bβ chain of fibrinogen into a β-lactoglobulin gene to produce a second gene fusion comprising a β-lactoglobulin promoter operably linked to the second DNA segment;

incorporating a third DNA segment encoding a secretion signal operably linked to a γ chain of fibrinogen into a β-lactoglobulin gene to produce a third gene fusion comprising a β-lactoglobulin promoter operably linked to the third DNA segment;

introducing said first, second and third gene fusions into the germ line of a non-human mammal so that said DNA segments are expressed in a mammary gland of said mammal or its female progeny and biocompetent fibrinogen is secreted into milk of said mammal or its female progeny;

obtaining milk from said mammal or its female progeny; and

recovering said fibrinogen from said milk.

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15. (amended) A method according to claim 12 wherein said introducing step comprises injecting said first, second and third gene fusions into a pronucleus of a fertilized egg and inserting said egg into an oviduct of a pseudopregnant female to produce female offpring carrying said gene fusions in the germ line, wherein said egg and said pseudopregnant female are of the same species.

In claim 18, please delete "nucleus" and insert therefor, --nuclei--.